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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of

Masahiro YATAKE

Group Art Unit: 1755

Serial No. 09/914,482

Examiner: Veronica F. Faison

Filed: August 28, 2001

Docket No.: U-013615-2

For: INK COMPOSITION FOR INK-JET RECORDING AND INK SET COMPRISING
THE SAME

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Honorable Commissioner of Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 CFR 1.132

I, Masahiro YATAKE, the undersigned, do hereby declare:

1. THAT I am a solo-inventor of the invention described and
claimed in the above patent application.

2. THAT the following experiments were conducted under my
direction and control:

Ink compositions 1 to 11 described in the specification of
the above application on page 20, line 27 to page 24, line 18
were provided.

The eight (8) ink compositions were evaluated as follows:

(1) Print quality

The ink composition was loaded into an ink jet printer EM-930 manufactured by Seiko Epson Corporation and 2,000 Japanese characters of MS Min-cho in the standard size of Microsoft Word were continuously printed by 100 pages of plain paper, Xerox P, of size A4. The prints were inspected for print disorder, and the results were evaluated according to the following evaluation criteria. The results were as shown in the following table.

Grade A: Print disorder did not take place at all on 100 pages.

Grade B: Print disorder took place 1 to 5 times on 100 pages.

Grade C: Print disorder took place 6 to 20 times on 100 pages.

Grade D: Print disorder took place 11 times or more on 100 pages.

(2) Anti-clogging property

The ink composition was loaded into an ink jet printer EM-930, and the printer was allowed to stand under conditions of temperature 60°C and relative humidity 40% for 10 days. Thereafter, the cleaning operations were carried out until normal ejection of the ink composition through all the nozzles was obtained. The times of the cleaning operation required were as shown in the following table.

	(1) Printing quality	(2) Anti-clogging property
Ink Composition 1	B	5
Ink Composition 2	B	4
Ink Composition 3	B	4
Ink Composition 4	B	4
Ink Composition 5	A	3
Ink Composition 6	A	2
Ink Composition 7	A	2
Ink Composition 8	A	2
Ink Composition 9	D	No recovery with 20 times operation
Ink Composition 10	D	5
Ink Composition 11	C	5

3. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: June 14 , 2004

Masahiro Yatake
Masahiro YATAKE